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L4 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2009 ACS on STN
 ACCESSION NUMBER: 2004:203841 CAPLUS
 DOCUMENT NUMBER: 140:235901
 TITLE: Preparation of neutral iridium metallic dendrimer complexes and their use as light-emitting devices
 INVENTOR(S): Samuel, Ifor David William; Burn, Paul Leslie; Lo, Shih-Chun
 PATENT ASSIGNEE(S): Isis Innovation Limited, UK; The University Court of the University of St. Andrews
 SOURCE: PCT Int. Appl., 46 pp.
 DOCUMENT TYPE: CODEN: PIXXD2
 LANGUAGE: Patent
 FAMILY ACC. NUM. COUNT: English
 PATENT INFORMATION: 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004020448	A1	20040311	WO 2003-GB3725	20030828
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
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EP 1532158	A1	20050525	EP 2003-791036	20030828
EP 1532158	B1	20081015		
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CN 1694891	A	20051109	CN 2003-824781	20030828
CN 100354285	C	20071212		
JP 2005537321	T	20051208	JP 2004-532299	20030828
AT 411328	T	20081015	AT 2003-791036	20030828
US 20060119254	A1	20060608	US 2005-525687	20050726
PRIORITY APPLN. INFO.:			GB 2002-19987	A 20020828
			WO 2003-GB3725	W 20030828
OTHER SOURCE(S):		CASREACT 140:235901		
GI				

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB A charge-neutral organometallic dendrimer is described, said dendrimer having the formula I: CORE-(DENDRITE(-Q))_an in which CORE represents a group of formula M_xY_z, in which M represents a metal cation, x represents an integer of 1 or more, each X which may be the same or different represents a mono-, bi- or tri-dentate coordinating group, z represents 0 or an integer of 1 or more, and each Y which may be the same or different represents a coordinating group, the total of (b.x) + (c.z) being equal to the number of coordination sites on M, wherein b is the number of coordination sites on X and c is the number of coordination sites on Y; n represents an

integer of 2 or more; each DENDRITE which may be the same or different represents a dendritic mol. structure bonded to a group X; a represents 0 or an integer of 1 or more; and each Q which may be the same or different represents a surface group; CORE terminating in the first single bond which is connected to a branching group or branching atom of DENDRITE; which dendrimer has a structure in which no hemisphere of a notional sphere centered on M and containing the dendrimer is devoid of a said first single bond. Thus, preparation of I is described in several steps starting from bromopyridine and the prepared compds. are useful in electro-optic devices, and in particular light-emitting devices.

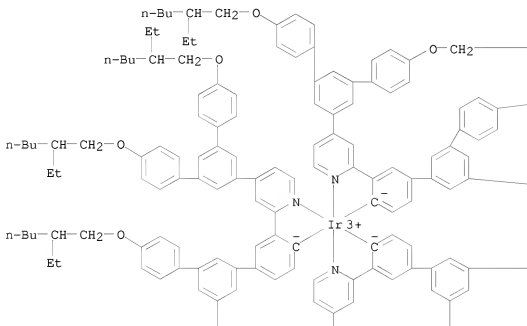
IT 668438-42-4P

RL: PRP (Properties); SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
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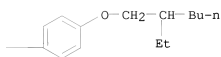
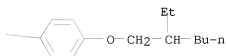
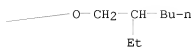
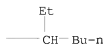
RN 668438-42-4 CAPLUS

CN Iridium, tris[3-[4-[4,4''-bis[(2-ethylhexyl)oxy][1,1':3',1''-terphenyl]-5'-yl]-2-pyridinyl-κN]-4''-[(2-ethylhexyl)oxy]-5'-[4-[(2-ethylhexyl)oxy]phenyl][1,1':3',1''-terphenyl]-4-yl-κC]-, (OC-6-22)-(9CI) (CA INDEX NAME)

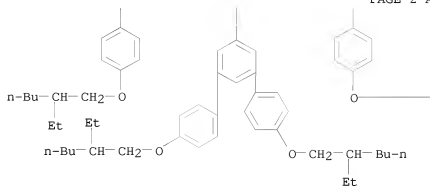
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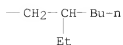
PAGE 1-B



PAGE 2-A



PAGE 2-B



REFERENCE COUNT:

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THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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FILE 'REGISTRY' ENTERED AT 11:01:31 ON 09 APR 2009

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L3 1 S L1 FULL

FILE 'CAPLUS' ENTERED AT 11:02:23 ON 09 APR 2009

L4 1 S L3

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L1 HAS NO ANSWERS
L1 STR

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Structure attributes must be viewed using STN Express query preparation.

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L4 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2009 ACS on STN
RE

- (1) Balzani, V; COORDINATION CHEMISTRY REVIEWS 2001, V219-221, P545 CAPLUS
- (2) Lawrence, G; WO 0214376 A 2002 CAPLUS
- (3) Mark, L; WO 02066552 A 2002 CAPLUS
- (4) Markham, J; APPLIED PHYSICS LETTERS 2002, V15(80), P2645

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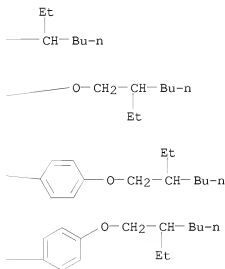
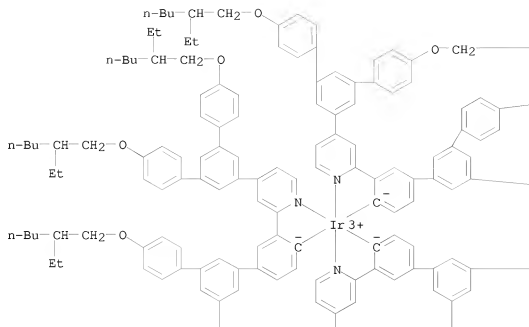
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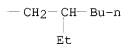
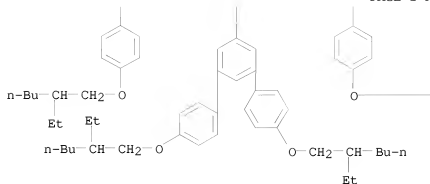
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L5 HAS NO ANSWERS

L5 STR

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